

PAYLOVSKIY, Ye.S.

2889. ATOMIC SELF-CONSISTENT FIELD EQUATIONS. 530.153
 A.S. Kompaneets and E.S. Pavlovskii.
 Zh. eksper. teor. Fiz., Vol. 31, No. 3(9), 427-38 (1956). In Russian.
 The Thomas-Fermi equation for the potential in an atom has
 been obtained together with all of the corrections of the order
 $Z^{-1/2}$ (Z = atomic number of the element) on basis of the Fock self-
 consistent field method. It is shown that the correction previously
 proposed by Weizsäcker is 9 times too large. The exchange correc-
 tion previously found by Dirac is valid only as long as it is small
 compared with the main term in the potential.

2
 [Handwritten signature]

USSR / Forestry. Forest Cultures.

K

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29594.

Author : ~~Pavlovskiy, Ye. S.~~

Inst : Scientific Research Institute for Agriculture
TsChP.

Title : The Corridor Method of Raising Oak in Forest
Belts.
(Koridornyy sposob vyrashchivaniya duba v les-
nykh polosakh).

Orig Pub: Byul. nauchno-tekhn. inform. n.-i. in-ta s.kh.
TsChP, 1956, No 1, 21-23.

Abstract: No abstract.

Card 1/1

68

USSR / Forestry. Forest Crops.

K-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24915.

Abstract: speed of growth (Norway maple, red-leaved ash).
In the first case, the accompanying species do not usually leave the oak behind, or outstrip it very inconsiderably, or even slightly fall behind it in growth, in the 10-11 year age. In the presence of a combination of slowly-growing accompanying species, and with such quick-growing second-growth species as birch, ash-leaved maple, and poplar, the fellings for thinnage begin at the age of about 10 years and are applied exclusively to the second growth. In the second case, the accompanying ones from the very beginning leave the oak behind and, found between rows of quick-growing temporary species

Card 2/3

83726

0/056/65/038/004/019/048
B006/B056

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AUTHORS:

Gandel'man, G. M., Pavlovskiy, Ye. .

TITLE:

The Quantum-mechanical Calculation of Pressure in Solids

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 38, No. 4, pp. 1176 - 1182

TEXT: One of the main problems in solid state physics is the calculation of the cohesion energy in the normal state as well as the determination of the compressibility curves, i.e. the density-pressure-function. The quantum-theoretical method of calculating temperature and pressure not only furnishes equally good results as other methods (e.g. the Thomas-Fermi method), but, beyond that, it is characterized by a number of particular features which are due to the reconstruction of the atomic electron shells in compression. An investigation of pressure in a solid by quantum-mechanical means is very complicated, which is, above all, due to the fact that the system is not a close one. Pressure might be expressed by the quantum-mechanical stress-tensor, which, however, leads to difficulties because of the necessity of taking the electromagnetic

Card 1/2

83726

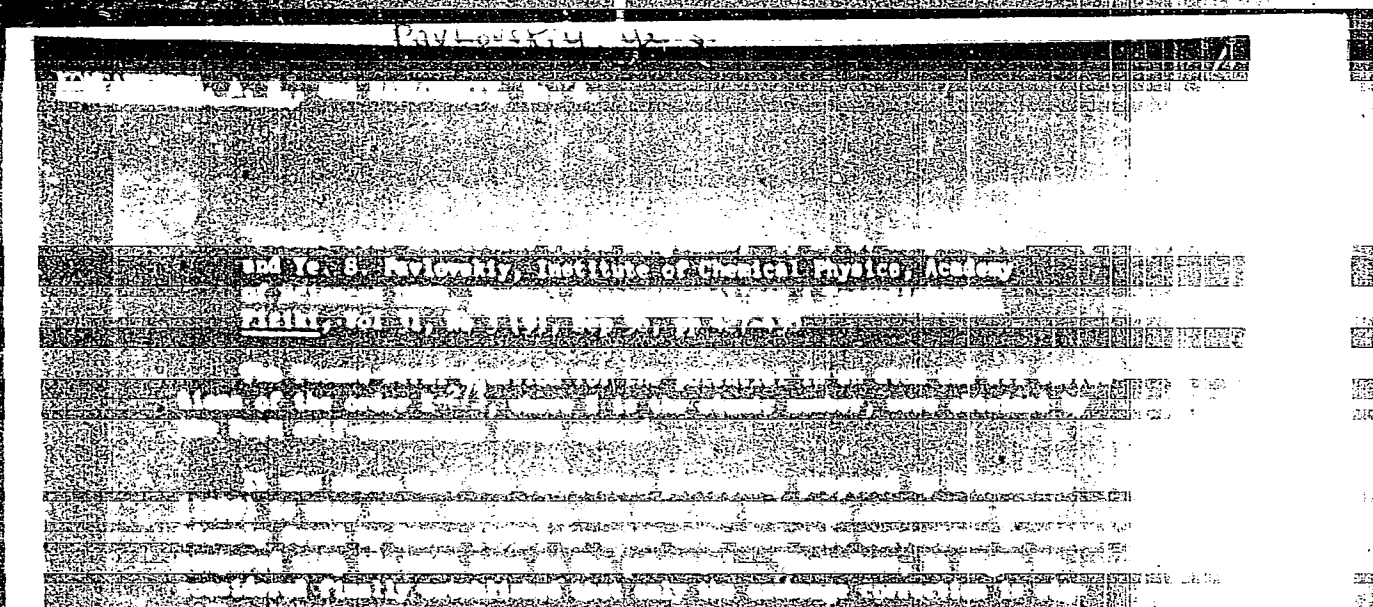
The Quantum-mechanical Calculation of Pressure
in Solids

S/056/60/038/004/019/048
B006/B056

tensor into account. Thus, the quantum-mechanical pressure formula is not derived via the stress tensor, but is obtained as a generalization of the virial theorem. This formula (10) is applied to the model of the spherical cells of Wigner-Seitz and its application is discussed in great detail. The authors finally thank Ya. B. Zel'dovich, N. A. Dmitriyev, and V. N. Mokhov for advice and discussions. V. A. Fok is mentioned. There are 10 references: 4 Soviet, 2 Italian, 1 German, and 3 US. X

SUBMITTED: September 29, 1959

Card 2/2



PAVLOVSKIY, Ye. S., kand. sel'skokhozyaystvennykh nauk

Land improving forest plantations and crop yields. Zemledelie
24 no.9:45-49 S '62. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
TSentral'no-chernozemnoy polosy imeni V. V. Dokuchayeva.

(Central Black Earth Region--Windbreaks, shelterbelts, etc.)
(Central Black Earth Region--Crop yields)

PAVLOVSKIY, Ye. S.

"Investigation of the Growth of Oaks in Shelter Belts Planted According to the Corridor Method." Cand Agr Sci, Voronezh Inst of Forestry, Min Higher Education USSR, Voronezh, 1955. (KL, No 11, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

PAVLOVSKIY, Ye.S.

The nature of microclimatic conditions in forest belts in the case
of corridor method of growing oak. Meteor. i gidrol. no.2:26-32 F
'56. (Forest influences) (MLRA 9:6)

ALEKSANDROV, N.P., kandidat sel'skokhozyaystvennykh nauk; PAVLOVSKIY, Ye.S.,
kandidat sel'skokhozyaystvennykh nauk; YAROVENKO, V.V., kandidat
sel'skokhozyaystvennykh nauk.

Erosion control in the provinces of the central Chernozem zone.
Zemledelie 4 no.5:66-71 My '56. (MLRA 9:8)
(Chernozem soils) (Erosion)

1ST AND 2ND LETTERS																										3RD AND 4TH LETTERS																									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																									
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Pavlovskii, A.																																																			
Petrography of the traps in the southwest part of the Tungusky basin. R. Pavlovskii and A. Tsvetkov <i>Tr. inst. pitov. i. geol. U. R. S. S. S. 6, 203-215 (1934).</i> <i>Neues Jahrb. Mineral. Geol., Beilage 11, 1935, 350-2.</i> Complete optical properties of the minerals and chem analyses of the various trap rocks are given. J. F. S.																																																			
ASB 55.6 METALLURGICAL LITERATURE CLASSIFICATION																																																			
10-000-01 10-000-02 10-000-03 10-000-04 10-000-05 10-000-06 10-000-07 10-000-08 10-000-09 10-000-10 10-000-11 10-000-12 10-000-13 10-000-14 10-000-15 10-000-16 10-000-17 10-000-18 10-000-19 10-000-20 10-000-21 10-000-22 10-000-23 10-000-24 10-000-25 10-000-26 10-000-27 10-000-28 10-000-29 10-000-30 10-000-31 10-000-32 10-000-33 10-000-34 10-000-35 10-000-36 10-000-37 10-000-38 10-000-39 10-000-40 10-000-41 10-000-42 10-000-43 10-000-44 10-000-45 10-000-46 10-000-47 10-000-48 10-000-49 10-000-50 10-000-51 10-000-52 10-000-53 10-000-54 10-000-55 10-000-56 10-000-57 10-000-58 10-000-59 10-000-60 10-000-61 10-000-62 10-000-63 10-000-64 10-000-65 10-000-66 10-000-67 10-000-68 10-000-69 10-000-70 10-000-71 10-000-72 10-000-73 10-000-74 10-000-75 10-000-76 10-000-77 10-000-78 10-000-79 10-000-80 10-000-81 10-000-82 10-000-83 10-000-84 10-000-85 10-000-86 10-000-87 10-000-88 10-000-89 10-000-90 10-000-91 10-000-92 10-000-93 10-000-94 10-000-95 10-000-96 10-000-97 10-000-98 10-000-99 10-000-100																																																			

PAVLOVSKIY, Ye. V.

"Quaternary Glaciation of the Sunnaghin Range (South Yakutia)," Dok. AN, 48, No. 8, 1945;

"A New Neolithic Site on the Kuda River (Irkutsk Oblast')," Priroda, No. 4, 1948.

PAVLOVSKIY, Ye. V.

PA 78T62

USSR/Medicine - Man, Primitive
Medicine - Environment

Apr 1948

"A New Neolithic Site on the Kuda River (Irkutsk Oblast')," Ye. V. Pavlovskiy, I. V. Arambovskiy, 1 p

"Priroda" No 4

Describes the site discovered by Prof Ye. V. Pavlovskiy in 1946. Stone tools and pottery fragments show that the place was permanently settled by neolithic fishermen and hunters.

78T62

PAVLOV, Ye. V.

30 Oct 58

USSR/Geology - Earth's Crust

"Certain General Laws Governing the Development of the Earth's Crust," 1958, 1959, 1960

Iz Ak Nauk SSSR, Ser Geol, No 6, pp 20-22

States that the primary firm platforms, relics of which are preserved under the Pacific Ocean, are the original tectonic structures of the earth's crust. Since the beginning of the Archeozoic era, the tectonic movements of the initial firm platforms have led to the development of the modern "crustal" and "tectonic" structures. The process of the "crustal" development is characterized by the following: morphological stage - stage of development of platforms, which are morphologically expressed at present in the form of continental masses. The general direction of the tectonic process since the beginning of the Archeozoic era and up to present is expressed in the shrinkage of the earth's crust.

PAVLOVSKIY, YE. V.

The Lower Paleozoic of Prisayan'ye (Near Sayan)

The author has established in the Uda River basin the following profile of lower paleozoic deposits (from bottom to top): sandy-conglomerate (Motsk) strata; exuberant stratum lying on the Motsk; Uda strata lying on the exuberant stratum perfectly conformable; Aysinsk strata lying on the Uda strata. (RZhGeol, No. 5, 1955) Tr. Vost.-Sib. fil. AN SSSR, ser. geol., No. 1, 1954, 18-38.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, 15-57-5-5748
p 6 (USSR)

AUTHORS: Pavlovskiy, Ye. V., Khrenov, P. M., Belichenko, V. G.

TITLE: Ancient Strata of the Barguzin-Vitimskiy Region in the
Transbaikalia (Drevniye tolshchi Barguzino-
Vitimskogo rayona Zabaykal'ya)

PERIODICAL: V sb: Voprosy geologii Azii. Vol 1, Moscow, Izd-vo
AN SSSR, 1954, pp 629-648.

ABSTRACT: Bibliographic entry

Card 1/1

PAVLOVSKIY, E. V.
USSR/ Geology - Fossils

Card 1/1 Pub. 46 - 2/24

Authors : Pavlovskiy, E. V., and Frolova, N. V.

Title : ~~Organic residues in metamorphosed complexes~~
Organic residues in metamorphosed complexes

Periodical : Izv. AN SSSR. Ser. geolog. 6, 15-29, Nov-Dec 1954

Abstract : Announcements are made about the discovery of well-preserved organic residues in metamorphous complexes of Siberia and Ural which deserve special attention by the stratigraphers, paleontologists and petrographers interested in metamorphic phenomena. These discoveries, according to the authors, should bring in serious corrections into many customary ideas which were previously undisputed. Offering a brief review of many interesting and often new facts the authors present only the most evident and convincing examples of the preservation of organic residues in sedimentary rocks of various eras which experiences various degrees of metamorphism. Fifty references: 36 USSR; 4 USA; 6 German; 3 French; 1 Italian (1881-1953). Illustrations.

Institution :

Submitted : May 26, 1954

PAVLOVSKIY, Ye. V.

ODINTSOV, M.M.; PAVLOVSKIY, Ye.V.

Book of V.T.Mordovskii, E.V.Kravchenko, and S.F.Fedorov "Geological structure of the southern part of the Siberian Platform." Reviewed by M.M.Odintsov, E.V.Pavlovskii. Izv. AN SSSR. Ser.geol. 19 no.2: 161-163 Mr-Apr '54. (MLRA 7:7)
(Siberian Platform--Geology, Structural) (Geology, Structural--Siberian Platform) (Mordovskii, V.T.) (Kravchenko, E.V.) (Fedorov, S.F.)

PAVLOVSKIY, Ye. V.

PAVLOVSKIY, Ye. V.; FROLOVA, N. V.

Geological study of the Lena-Angara-Baikal watershed. Och. po geol.

Sib. no. 18:3-29 '55.

(MLRA 8:12)

(Baikal region--Geology)

SHCHERBAKOV, D.I., akademik; SHATSKIY, N.S., akademik; MIRONOV, S.I., akademik;
STRAKHOV, E.M., akademik; KORZHINSKIY, D.S., akademik; BETEKHTIN, A.G.,
akademik; NALIVKIN, D.V., akademik; POLKANO', A.A., akademik; APANAS'-
YEV, G.D.; VLASOV, K.A.; CHUKHROV, F.V.; LEVITSKIY, O.D.; PAVLOVSKIY, Y. V.,
professor; BARSANOV, G.P., professor; YERSHOV, A.D.; IVANOV, B.V.;
YABLOKOV, V.S.; ARDASHNIKOVA, S.D.

Academician Vladimir Afanas'evich Obruchev, hero of socialist labor;
obituary. Izv. AN SSSR. Ser. geol. 41 no. 6:5-10 Je '56. (MIRA 9:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Afanas'yev, Vlasov,
Chukhrov, Levitskiy).

(Obruchev, Vladimir Afanas'yevich, 1863-1956)

PAVLOVSKIY, Ye.V.

Tectonics of the Sayan-Baikal upland. Izv. AN SSSR. Ser. geol. 21
no. 10:3-12 O '56. (MLRA 10:1)

1. Geologicheskii institut Akademii nauk SSSR, Moskva.
(Sayan Mountains--Geology, Structural) (Baikal Range--Geology,
Structural) (Transbaikalia--Geology, Structural)

1410260301 14 931.
SHATSKIY, N.N.; PAVLOVSKIY, Ye.V.

Academician Vladimir Afanas'evich Obruchev; obituary. Razved. i
okh. nedr 22 no.8:61-63 Ag '56. (MLRA 9:11)

1. Geologicheskii institut Akademii nauk SSSR.
(Obruchev, Vladimir Afanas'evich, 1863-1956)

PAVLOVSKIY, Ye.V., professor.

In the Geological Institute (report of professor N.B. Men'shikov on
the geology of Sahara). Vest. AN SSSR 26 no.7:80 J1 '56. (MLRA 9:9)
(Sahara--Geology)

PAVLOVSKIY, Ye.V., professor; FLORENSON, M.A.

Mineral resources of Eastern Siberia. Priroda 45 no.12:3-13 D '56.
(Siberia, Eastern--Mines and mineral resources) (MLRA 10:2)

PAVLOVSKIY, Ye. V.

SHATSKIY, N.S.; BOGDANOV, A.A.; BELYAYEVSKIY, N.A.; VERESHCHAGIN, V.I.;
ZAYTSEV, N.S.; KOSYGIN, Yu.A.; KROPOTKIN, P.N.; MURATOV, M.V.
NAGIBINA, M.S.; OGNEV, V.N.; PAVLOVSKIY, Ye.V.; PEYVE, A.V.;
PUSHCHAROVSKIY, Yu.M.; SALOP, L.I.; SOBOLEVSKAYA, V.N.;
KHARITONOV, L.Ya.; KHRASKOV, N.P.; SHEYNMAN, Yu.M.; SHTREYS, N.A.;
YANSHIN, A.L.; VERSTAK, G.V. redaktor izdatel'stva; GUROVA, O.A.
tekhnicheskii redaktor

[Tectonic map of the U.S.S.R. and adjacent countries on a scale of
1:5,000,000; explanatory notes] Tektonicheskaya karta SSSR i
sopredel'nykh stran v mashtabe 1:5,000,000; ob"iasnitel'naya
zapiska. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i
okhrane neдр, 1957. 77 p. (MLRA 10:5)

1. Akademiya nauk SSSR.
(Russia--Geology--Maps)

PAVLOVSKIY, Ye. V.
IVAN'YEV, L.N.; ODINTSOV, M.M.; OKLADNIKOV, A.P.; PAVLOVSKIY, Ye.V. ;
TYUMENTSEV, I.V.; FLORENISOV, N.A.

Iosif Viacheslavovich Armbovskii; obituary. Biul. Kom. chetv. per.
no.21:141-143 '57. (MLBA 10:6)
(Armbovskii, Iosif Viacheslavovich, 1907-1956)

PAVLOVSKIY, Ye.V.; KHERASKOV, N.P.; YANSHIN, A.L.

Professor Huan Ti-tsing's address on the tectonics of China presented
at the Geological Institute of the Academy of Sciences of the U.S.S.R.
Izv.AN SSSR Ser.geol. 22 no.1:144 Ja '57. (MLRA 10:3)
(China--Geology, Structural)

KROPOTKIN, P.N., otv. red.; BELOUSOV, V.V., red.; BELYAYEVSKIY,
N.A., red.; BOGDANOV, A.A., red.; GARETSKIY, R.G., red.;
GUBIN, I.Ye., red.; LEYTES, A.M., red.; MAZAROVICH, O.A.,
red.; MURATOV, M.V., red.; NIKOLAYEV, N.I., red.;
PAVLOVSKIY, Ye.V., red.; PEYVE, A.V., red.; PETRUSHEVSKIY,
B.A., red.; PUSHCHEVSKIY, Yu.M., red.; SHEYNNMANN, Yu.M.,
red.; SHTREYS, N.A., red.; YANSHIN, A.L., red.

[Structure and the development of the earth's crust;
materials] Stroenie i razvitie zemnoi kory; materialy. Mo-
skva, Nauka, 1964. 199 p. (MIRA 18:2)

1. Vsesoyuznoye soveshchaniye po problemam tektoniki. 2d,
Moscow, 1963.

PAVLOVSKIY, Ye.V.; GRIGORCHAK, L.V.

Recent data on the geology of the Delyatin region and the
direction for further prospecting operations. Neft i gaz.
prom. no.2:6-9 Ap-Je '64. (MIRA 17:9)

PAVLOVSKIY, Ye.V.; LUCHITSKIY, I.V.

"Geological dictionary," volumes 1, 2. Reviewed by E.V.Pavlovskii,
I.V.Luchitskii. Izv.AN SSSR.Ser.geol. 22 no.3:96-98 Mr '57.
(MLRA 10:5)

(Geology--Dictionaries)

Pavlovskiy, Ye. V.

11-1-24/29

AUTHORS: Pustovalov, L.V., Borukayev, P.A., Pavlovskiy, Ye.V.

TITLE: The Second Session of the International Association for the Study of Plutonic Zones of the Earth's Crust in Scotland
(II sessiya mezhdunarodnoy assotsiatsii po izucheniyu glubinnnykh zon zemnoy kory v Shotlandii)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, # 1, pp 111-112 (USSR)

ABSTRACT: The second session of the International Association for the study of plutonic zones of the earth was held at Edinburgh on September 12, 1957. The USSR Academy of Sciences was represented by member-correspondent L.V. Pustovalov, academician R.A. Borukayev, of the Kazakhstan Academy of Sciences, doctor of geologic-mineral sciences Ye.V. Pavlovskiy (Geological Institute of the USSR Academy of Sciences) and secretary N.V. Khabarin. The leader of the Soviet delegation, R.A. Borukayev was elected president of the convention. The members of the convention had the opportunity to study the ancient geologic formations of Scotland at the occasion of several excursions. It was decided to hold the

Card 1/2

11-1-24/29

The Second Session of the International Association for the Study of
Plutonic Zones of the Earth's Crust in Scotland

third session of the International Association in France in
1959.

AVAILABLE: Library of Congress

Card 2/2

PAVLOVSKIY, YE V.

AUTHOR: Pavlovskiy, Ye.V.

11-58-6-2/13

TITLE: Short Outlines of the Pre-Cambrian and Low Paleozoic Formations of the Scottish Highlands (Kratkiy ocherk dokembriya i nizhenego paleozoya Shotlandskikh nagoriy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr 6, pp 23-47 (USSR)

ABSTRACT: This is the first part of an article titled "Peculiarities in the Development of Caledonites in Scotland"; The second part will be published in the next issue of this periodical. A detailed description of the most ancient formations of the Scottish Highlands is given. The Soviet delegation at the 2nd session of the Association for the Study of the Earth's Crust, held in September 1957, included the following scientists: Member-Correspondent of the AS USSR, L.V. Pustovalov (Head of the delegation). Academician of the Kazakh AS SSR, P.A. Borukayev, and the author of this article. There is 1 table, 5 figures, and 40 references, of which 5 are Soviet and 35 English.

Card 1/2

11-58-6-2/13

Short Outlines of the Pre-Cambrian and Low Paleozoic Formations of the Scottish Highlands

ASSOCIATION: Geologicheskii institut AN SSSR Moskva (The Moscow Geological Institute of the AS USSR)

SUBMITTED: February 12, 1958.

AVAILABLE: Library of Congress

Card 2/2 1. Geology 2. Paleology

AUTHOR: Pavlovskiy, Ye.V. 11-58-7-1/1

TITLE: The Geologic History of the Highlands of Scotland in the Pre-Cambrian and Lower Paleozoic Periods and the Role of Eutectic Faults (Geologicheskaya istoriya nagoriy Shotlandii v dokambrii i nizhnem Paleozoye i rol' glubinnykh razlomov)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1958, Nr 6, pp 3-19 (USSR)

ABSTRACT: This is a second part of an article by Pavlovskiy, which appeared in the 1958 Nr 6 issue of this periodical, describing the peculiarities of the development of Scotland in the Pre-Cambrian and Lower Paleozoic periods. There are 7 figures, 1 table and 50 references, 23 of which are Soviet, 1 French, 1 Belgian, 1 American and 23 English.

SUBMITTED: January 25, 1958

ASSOCIATION: Geologicheskii institut Akademii nauk SSSR, Moskva Geological Institute of the USSR Academy of Sciences, Moscow

Card 1/1 1. Geology - Scotland

AUTHOR: Pavlovskiy, Ye.V. OSV-11-58-9-0014

TITLE: Our Laureates (Nashi laureaty); Academician N.S. Shatskiy - Laureate of the 1958 Lenin Prize (Akademik N.S. Shatskiy - Laureat Leninskoy premii 1958 g.)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1958, Nr 9, pp 94-95 (USSR)

ABSTRACT: Academician N.S. Shatskiy was awarded the 1958 Lenin prize for the leading part he took in the edition of the tectonic map of the USSR and adjoining countries. During the last International Conference on Tectonics in Paris, Academician Shatskiy was elected chairman of the international commission for the compilation of the tectonic map of Europe.

1. Geologists--USSR

Card 1/1

Pavlovskiy, Ye.V.
PUSTOVALOV, L.V.; BORUKAYEV, R.A.; PAVLOVSKIY, Ye.V.

Second session of the International Association for the Study of
deep Zones of the Earth's Crust held in Scotland. Izv. AN SSSR.
Ser. geol. 23 no.1:111-112 Ja '58. (MIRA 11:3)
(Scotland--Geology--Congresses)

GARETSKIY, R.G., otv. red.; YANSHIN, A.L. akademik, otv. red.;
BELOUSOV, V.V., red.; BELYAYEVSKIY, N.A., red.; BOGDANOV,
A.A., red.; GUBIN, I.Ye., red.; KROPOTKIN, P.N., red.;
LEYTES, A.M., red.; MAZAROVICH, O.A., red.; MUKATOV, M.V.,
red.; NIKOLAYEV, N.I., red.; PAVLOVSKIY, Ye.V., red.; PEYVE,
A.V., red.; PETRUSHEVSKIY, B.A. red.; PUSHCHAROVSKIY, Yu.M.,
red.; SHEYNMANN, Yu.M., red.; SHTREYS N.A., red.

[Young platforms, their tectonics, and prospects for find-
ing oil and gas; materials] Molodye platformy, ikh tektonika
i perspektivy neftegazonosnosti; materialy. Moskva, Nauka,
1965. 223 p. (MIRA 18:3)

1. Soveshchaniye po problemam tektoniki, Moscow, 1963.

KROPOTKIN, Petr Nikolayevich; SHAKHVARSTOVA, Kseniya Aleksandrovna;
PAVLOVSKIY, Ye.V., otv. red.; PEYVE, A.V., akademik, glavnyy
red.; KUZNETSOVA, K.I., red.; MENNER, V.V., red.; TIMOFEEV, P.P.,
red.

[Geological structure of the Pacific mobile belt.] Geologicheskoe stroenie Tikhookeanskogo podvizhnogo polosa. Moskva, Nauka, 1965. 364 p. maps. (Akademiya nauk SSSR. Institut geologii. Trudy, no. 134). (MIRA 18:12)

PAVLOVSKIY, Yo.V.

New information on the tectonics of the Pyrenees. Geotektonika
no.5:36-70 S-O '65. (MIRA 19:1)

1. Geologicheskii institut AN SSSR. Submitted April 14, 1965.

PAVLOVSKIY, Ye.V.

Book review. Izv. AN SSSR. Ser. geol. 30 no.8:124-126 Ag '65.
(MIRA 18:9)

1. Geologicheskii institut AN SSSR, Moskva.

PAVLOVSKIY, Ye.V.

Pentti Eskola, 1883-?; obituary. Sov. geol. 8 no.6:174-176
Je '65. (MIRA 18:8)

PAVLOVSKIY, Ye.V.; LEYTES, A.M.

Seventh Session of the International Association for the Geological
Study of Crustal Deep Zones in the Czech Massif. Izv. AN SSSR. Ser.
geol. 30 no.2:154-160 P '65.

(MIRA 18:4)

PAVLOVSKIY, Ye. V., doktor geol.-mineral. nauk; LEYTEL, A.M., kand. geol.-
mineral. nauk

Eighth Session of the International Association on the Geology
Study of the Deep Zones of the Earth's Crust in Czechoslovakia.
Vest. AN SSSR 34 no.1:90 Ja '65. (MIRA 18:2)

PEYVE, A.V., otv. red.; BELICHOV, V.V., red.; GARETSKIY, R.G.,
red.; LEYTE, A.K., red.; PAVLOVSKIY, Ye.V., red.;
YANSHIN, A.L., red.

[Deformation of rocks and tectonics: Deformatsiia porod i
tektonika. Moskva, Nauka, 1964. 274 p. (Doklady sovetskikh
geologov. Problema .) (MIRA 17:10)

1. Natsional'nyy komitet geologov Sovetskogo Soyuza.

PAV. VERNY, Ye.V.; P. P. V., S. I.

Some general problems of protection of the irreversibility
of rural development. Trudy GIN no. 43:2-63 '63 (MIRA 17:6)

PAVLOVSKIY, Yevgeniy Vladimirovich; YESKIN, Andrey Stepanovich; SHTREYS,
N.A. otv. red.; PEYVE, A.V., glavnyy red.; KUZNETSOVA, K.I., red.;
MENNER, V.V., red.; TIMOFEYEV, P.P., red.

[Characteristics of the composition and structure of the
Archean of the Lake Baikal region]. Osobennosti sostava i
struktury Arkheia Pribaikal'ia. Moskva, Izd-vo "Nauka", 1964.
125 p. (Akademiia nauk SSSR. Geologicheskii institut. Trudy,
no.110).

(MIRA 17:7)

1. AN SSSR (for Peyve).

PAVLOVSKIY, Ye.V.: KHRENOV, P.M.

Seventh session of the International Association of the Geological Study of Crustal Subsurface Zones, AZOFRO (French Pyrenees). Izv. AN SSSR Ser. geol. 29 no.38116-120 M^o64, (MIRA 1783)

OBRUCHEV, S.V., otv. red.; VELIKOSLAVINSKIY, D.A., red.; KELLER,
B.M., red.; KRATS, K.O., red.; MEYELOV, A.N., red.;
PAVLOVSKIY, Ye.V., red.; POLOVINKINA, Yu.Ir., red.;
~~SEMENKO, N.P., red.~~; SALOP, L.I., red.

[Pre-Cambrian geology] Geologiya dokembrii. Moskva,
Nedra, 1964. 284 p. (Its Doklady sovetskikh geologov.
Problema 10) (MIRA 17:8)

1. International Geological Congress. 22d, 1964.

BELYAYEVSKIY, N.A., otv. red.; LEYTES, A.M., otv. red.; SHEYNNANN, Yu.M., otv. red.; BELCUNOV, V.V., red.; BOGDANOV, A.A., red.; GALETSKIY, R.G., red.; GUBIN, I.Ye., red.; KROPOTKIN, P.N., red.; SHTREYS, N.A., red.; MAZANOVICH, O.A., red.; MURATOV, M.V., red.; NIKOLAYEV, N.I., red.; PAVLOVSKIY, Ye.V., red.; PEYVE, A.V., red.; PETRUSHEVSKIY, B.A., red.; PUSHCHAROVSKIY, Yu.M., red.; YANSHIN, A.L., red.

[Tectonics, igneous activity and distribution of ore deposits; materials] Tektonika, magmatizm i zakonomernosti razmeshcheniya rudnykh mestorozhdeniy; materialy. Moskva, Nauka, 1964. 237 p. (MIRA 17:8)

1. Soveshchaniye po problemam tektoniki, Moscow, 1963.

BELOUSOV, V.V., red.; BELYAYEVSKIY, N.A., red.; BOGDANOV, A.A., red.; GARETSKIY, R.G., red.; GUBIN, I.Ye., red.; K KROPOTKIN, P.N., red.; LEYTES, A.M., red.; MAZAKOVICH, O.A., red.; MURATOV, M.V., red.; NIKOLAYEV, N.I., red.; PAVLOVSKIY, Ye.V., red.; PEYVE, A.V., red.; PETRUSHEVSKIY, B.A., red.; FUSHCHAROVSKIY, Yu.M., red.; SHEYNMANN, Yu.M., red.; SHTEYNS, N.A., red.; YANSHIN, A.L., red.

[Problems of the comparative tectonics of ancient platforms; materials] Voprosy sravnitel'noi tektoniki drevnikh platrofm; materialy. Moskva, Nauka, 1964. 152 p. (MIRA 17:8)

PAVLOVSKIY, Ye.V., doktor geol.-mineral.nauk; KHRENOV, P.M., kand.
geol.-mineral.nauk

Geological excursion in the French Pyrenees. Vest. AN SSSR
34 no. 2:74-78 F '64. (MIRA 17:5)

PAVLICVSKIY, Ye.V.; LEYTES, A.M.

Concerning N.A. Bykhover's book "Distribution of world mineral
resources based on the epochs of ore formation." Izv. AN SSSR
Ser. geol. 28:102-103 S '63. (MIRA 16:10)

PAVLOVSKIY, Ye.V.

From the reminiscences of Vladimir Afanas'evich Obrucher.
Och. po ist. geol. znan. no.12:63-73 '63. (MIRA 16:10)

SHATSKIY, Nikolay Sergeyevich [deceased]; SHCHERBAKOV, D.I., akademik, glav. red.; YANSHIN, A.L., akademik, otv. red. toma; PEYVE, A.V., zam. glav. red.; KELLER, B.M., red.; MARKOV, M.S., red.; MENNER, V.V., red.; PAVLOVSKIY, Ye.V., red.; PUSHCHAROVSKIY, Yu.M., red.; TIKHOMIROV, V.V., red.; KHVOROVA, D.I., red.; KHERASKOV, N.P., red.; TUGOLESOV, D.A., red. izd-va; POLYAKOVA, T.V., tekhn. red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad. nauk SSSR. Vol.1. 1963. 621 p. (MIRA 16:6)

1. Chlen-korrespondent AN SSSR (for Peyve).
(Geology)

PAVLOVSKIY, Ye.V.

Specific characteristics of the crustal tectonic development in
the Early Pre-Cambrian. Trudy VSGI Ser.geol. no.5:77-108 '62.
(MIRA 15:9)

1. Geologicheskii institut AN SSSR, Moskva.
(Earth—Surface)

AFANAS'YEV, G.D.; BARSANOV, G.P.; VLASOV, K.A.; KORZHINSKIY, D.S.; MIRCHINK,
M.F.; PAVLOVSKIY, Ye.V.; PEYVE, A.V.; SMIRNOV, V.I.; CHUKHROV,
F.V.; SHCHERBAKOV, D.I.; YABLOKOV, V.S.

In memory of Kh.M.Abdullaev. Izv. AN SSSR. Ser.geol. 27 no.9:
117-118 S '62. (MIRA 15:9)
(Abdullaev, Khabib Mukhamedovich, 1912 (?) - 1962)

AFANAS'YEV, G.D.; BARANOV, G.P.; VLASOV, K.A.; KORZHINSKIY, D.S.;
MIRCHINK, M.F.; MALIVKIN, D.V.; PAVLOVSKIY, Ye.V.; PKYVE, A.V.;
SMIRNOV, V.I.; STRAKHOV, N.M.; CHUKHROV, F.V.; SHCHERBAKOV, D.I.;
YABLOKOV, V.S.

Oleg Dmitrievich Levitskii; obituary. Izv.AN SSSR.Ser.geol. 26
no.6:110-111 Je '61. (MIRA 14:6)
(Levitskii, Oleg Dmitrievich, 1909-1961)

LEBEDEV, A.P.; PAVLOVSKIY, Ye.V.

Three lectures of professor H.F.Read "General synthesis of Caledonian metamorphism, plutonism and orogeny in Great Britain." Izv. AN SSSR. Ser.geol. 26 no.8:125-128 Ag '61. (MIRA 14:9)
(Great Britain--Metamorphism (Geology)) (Read, H. H.)

NAUMOVA, S.N.; PAVLOVSKIY, Ye.V.

Find of plant remains (spores) in Torridonian schists of
Scotland. Dokl. AN SSSR 141 no.1:161-162 N '61.
(MIRA 14:11)

1. Geologicheskii institut AN SSSR. Predstavleno akademikom
N.H. Strakhovym.
(Scotland--Spores (Botany), Fossil)

ARKHANGEL'SKAYA, N.A.; GRIGOR'YEV, V.N.; ZELENOV, K.K.; PAVLOVSKIY, Ye.V.,
otv.red.; VERSTAK, G.V., red.izd.va; POLENOVA, T.P., tekhn.red.

[Facies of lower-Cambrian sediments in the southern and western
outskirts of the Siberian Platform]- Fatsii nizhnnekembriiskikh
otlozhenii iuzhnoi i zapadnoi okrain Sibirskoi platformy. Moskva,
Izd-vo Akad.nauk SSSR, 1960. 199 p. (Akademiia nauk SSSR. Geologicheskii
institut. Trudy, no.33). (MIRA 13:11)
(Siberian Platform--Sediments (Geology))

PAVLOVSKIY, Ye.V.

Stages in the geosynclinal development of "Hercynian massifs"
in France and southern Germany. Izv. AN SSSR. Ser. geol. 25
no.11;20-46 N '60. (MIRA 13;11)

1. Geologicheskii institut AN SSSR, Moskva.
(Hercynian massif--Geology, Structural)

RUT'YE, P. [Routhier]; ARDASHNIKOVA, S.D. [translator]; PAVLOVSKIY, Ye.V.
[translator]

Modern trends in geological studies of ore deposits in France. Izv.
AN SSSR. Ser. geol. 25 no.10:22-40 O '60. (MIRA 13:10)

1. Geologicheskoye obshchestvo Frantsii, Parizh.
(France---Ore deposits)

PAVLOVSKIY, Ye.V.; SHTREYS, N.A.

Fourth session of the International Association for the Study of
Crustal Subsurface Zones. Izv. AN SSSR. Ser. geol. 25 no.2:125-128
F '60. (MIRA 13:10)

(Geology)

PAVLOVSKIY, Ye.V.

Pericratonal subsidence areas as platform structures of the first
order. Izv. AN SSSR. Ser. geol. 24 no. 12:3-9 D '59.
(MIRA 13:8)

1. Geologicheskii institut AN SSSR, Moskva.
(Geology, Structural)

PAVLOVSKIY, Ye.V.

Age problem of crystalline schists of the Massif Central of France. Izv. AN SSSR. Ser. geol. 25 no.9:3-14 S '60. (MIRA 13:9)

1. Geologicheskii institut AN SSSR, Moskva.
(Massif Central--Schists)

PAVLOVSKIY, Ye.V., otv.red.; ZAYTSEV, N.S., red.; KOTLYAREVSKAYA, P.S.,
red.izd-va; LEBEDEV, L.A., tekhn.red.

[Caledonian orogeny] Kaledonskaya orogeniya. Moskva, Izd-vo Akad.
nauk SSSR, 1960. 131 p. (Doklady sovetskikh geologov. Problema 19).
(MIRA 13:9)

1. International Geological Congress. 21st, Copenhagen, 1960.
(Mountains)

PUSTOVALOV, L.V.; PAVLOVSKIY, Ye.V.

Fourth session of the International Association for the
Study of Deep Crustal Zones in West Germany, September 9-25,
1959. Sov.geol. 3 no.5:131-135 My '60.
(MIRA 13:7)

1. Geologicheskii institut AN SSSR.
(Germany, West--Geology)

3(0)

SOV/30-59-2-21/60

AUTHORS:

Pustovalov, L. V., Corresponding Member, Academy of Sciences,
USSR
Pavlovskiy, Ye. V., Professor

TITLE:

News in Brief (Kratkiye soobshcheniya)
Third Meeting of the International Association for the
Research of the Depth Zones in the Earth's Crust (3-ya ses-
siya Mezhdunarodnoy assotsiatsii po izucheniyu glubinnykh
zon zemnoy kory)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 2, p 79 (USSR)

ABSTRACT:

The Meeting was held in France between September 16 and
September 26, 1958. Scientists from the following countries
took part: Australia, Algeria, Belgium, the Belgian Congo,
the Netherlands, Madagascar, the Soviet Union, France and
Switzerland. Academician A. A. Polkanov, head of the Soviet
delegation was unanimously elected chairman of the Meeting.
He reported on the geology of isotopes. L. V. Pustovalov
showed a film on the previous Meeting of the Association
which took place in Scotland. It was decided to hold the 4th
Meeting in 1959 in the German Federal Republic. The Soviet

Card 1/2

SOV/30-59-2-21/60

News in Brief. Third Meeting of the International Association for the
Research of the Depth Zones in the Earth's Crust

delegation was requested to decide together with the Prezidium Akademii nauk SSSR (Presidium of the Academy of Sciences, USSR) whether it is possible to hold the 5th Meeting of the Association in 1961 in the USSR. The Soviet delegation had the chance of visiting a number of museums, scientific institutions and laboratories.

Card 2/2

PAVLOVSKIY, Ye.V.; PUSTOVALOV, L.V.

Third session of the International Association for the study
of the abyssal Zones of the Earth's Crust (Sep.16-26, 1958).
Izv. AN SSSR Ser. geol. 24 no.2:124-127 P '59.

(MIRA 12:3)

(France--Geology--Congresses)

PAVLOVSKIY, Ye.V.; BELICHENKO, V.G.

Upper Proterozoic sedimentary formations and associated minerals
in the Sayan-Baikal highland. Zakonem. razm. pelez. iskop. 1:
123-141 '58. (MIRA 12:3)

1. Geologicheskii institut AN SSSR i Institut geologii Vestechne-
Sibirskogo filiala AN SSSR.
(Siberia, Eastern--Mines and mineral resources)
(Siberia, Eastern--Geology, Structural)

PUSTOVALOV, L.V.; PAVLOVSKIY, Ye.V., prof.

Third session of the International Association on the Study
of Deep Zones of the Earth's Crust. Vest.AN SSSR 29 no.7:79
'59. (MIRA 12:4)

1. Chlen-korrespondent AN SSSR (for Pustovalov)
(France--Geology--Congresses)

POPOV, S.D., otv.red.; BORISOV, N.I., red.; BUYANTUYEV, B.R., red.; GALAKTIONOV, I.I., red.; KROTOV, V.A., red.; OZNOBIN, N.M., red.; ~~PAYLOVSKIY, Ye.V.,~~ red.; TARASOV, G.L., red.; SHNIPER, R.I., red.; AKHANOV, TS.B., tekhn.red.

[Studies on the production forces of the Buryat-Mongolian A.S.S.R.]
Materialy po izucheniiu proizvoditel'nykh sil Buriat-Mongol'skoi ASSR.
No.2. Ulan-Ude, Buriat-Mongol'skoe knizhnoe izd-vo. 1955 507 p.
(MIRA 12:4)

1. Akademiya nauk SSSR, Vostochno-Sibirskiy filial. 2. Sovet po izucheniiu proizvoditel'nykh sil AN SSSR (for Popov, Galaktionov, Tarasov).
3. Zamestitel' predsedatelya Soveta Ministrov Buryat-Mongol'skoy ASSR (for Borisov). 4. Vostochno-Sibirskiy filial AN SSSR (for Buyantuyev).
5. Institut ekonomiki AN SSSR (for Oznobin). 6. Gosplan Buryat-Mongol'skoy ASSR (for Shniper).

(Buryat-Mongolia--Geography, Economic)

SHCHERBAKOV, D.I.; PAVLOVSKIY, Ye.V.

Our laureates, Izv.AN SSSR.Ser.geol. 23 no.9:92-95 S '58.
(MIRA 11:11)

(Geology)

PAVLOVSKIY Ye. V.

3(5)

3

PHASE I BOOK EXPLOITATION

SOV/1923

Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh nauk.
Komissiya po probleme "Zakonomernosti razmeshcheniya poleznykh
iskopayemykh."

Zakonomernosti razmeshcheniya poleznykh iskopayemykh (Regularities in
the Distribution of Mineral Deposits Vol 1. Moscow, Izd-vo AN SSSR,
1958. 532 p. Errata slip inserted. 2,500 copies printed.

Resp. Ed.: N.S. Shatskiy, Academician; Editorial Board: N.S. Shatskiy,
Academician, D.I. Shcherbakov, Academician, N.A. Belyayevskiy,
N.N. Dolgoplov, O.D. Levitskiy, Yu.M. Pushcharovskiy, G.A. Sokolov;
Ed. of Publishing House: G.I. Nosov; Tech. Ed.: I.N. Guseva

PURPOSE: This book is intended for geologists and petrographers,
particularly those interested in the worldwide distribution of
minerals and the reasons underlying their occurrence.

Card 1/6

Mineral Deposits (Cont.)

SOV/1923

COVERAGE: On the basis of particular regional studies this book attempts to establish the rules governing the distribution of metallic and non-metallic ore deposits. The work includes articles on the metallogeny of individual minerals, on broad methodological problems, and on the possibility of predicting the occurrence of a mineral in the USSR on the basis of its occurrence throughout the world. Six maps depicting the distribution of a particular mineral throughout the world are included with the work. References accompany each article.

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Card 2/6

Mineral Deposits (Cont.)

SOV/1923

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Card 3/6

Mineral Deposits (Cont.)

SOV/1923

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Mineral Deposits (Cont.)

SOV/1923

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Card 5/6	

Mineral Deposits (Cont.)

SOV/1923

**Gimmel'farb, B.U. Regularity in the Tectonic Distribution of
Phosphate Deposits in the USSR**

487

**Fiveg, M.P. The Regularities in the Formation and Distribution
of Potassium Deposits in Salt-bearing Formations**

517

AVAILABLE: Library of Congress

Card 6/6

**MM/jab
6/18/59**

SOV/11-59-2-12/14

AUTHORS: Pavlovskiy, Ye.V., and Pustovalov, L.V.

TITLE: The Third Session of the International Association for the Study of Plutonic Zones of the Earth's Crust (16-26 Sep 1958) (The Central Massif of France) Tret'ya sessiya mezhdunarodnoy assotsiatsii po izucheniyu glubinnykh zon zemnoy kory (16-26.9.1958) (Tsentral'nyy massiv Frantsii)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 2, pp 124-127 (USSR)

ABSTRACT: In the Third Session of the above mentioned Association, the Soviet delegation which took part in the Session was composed of Academician A.A. Polkanov (leader of the delegation), **Corresponding Member** of the AS of the USSR L.V. Pustovalov, Academician of the AS of KazakhSSR R.A. Borukayev, Professor Doctor Ye.V. Pavlovskiy (GIN, AN SSSR) and Doctor I.Kh. Khamrabayev (AS, Uzbek SSR).

Card 1/1

PAVLOVSKIY, Ye.V.

~~Geological history of pre-Cambrian and lower Paleozoic highlands in~~
Scotland and the role of deep faults. Izv. AN SSSR. Ser. geol. 23
no.7:3-19 J1 '58. (MIRA 11:9)

1.Geologicheskii institut AN SSSR, Moskva.
(Scotland--Geology, Structural)

PAVLOVSKY, N. S. ...

Basal ... of geological structure and ... for
finding ... oil in the ... of the Soviet
Carpathian No. 1.
(1911-1912)

1. Ob'yekt ... "Dnepropetrovsk ...".

MURATOV, M.V., otv. red.; PUSHCHAROVSKIY, Yu.M., red.; KHAIN, V.Ye., red.; MAZAROVICH, O.A., red.; BELOUSOV, V.V., red.; BELYAYEVSKIY, N.A., red.; BOGDANOV, A.A., red.; GARETSKIY, R.G., red.; GUBIN, I.Ye., red.; KROPOTKIN, P.N., red.; LEYTES, A.M., red.; NIKOLAYEV, N.I., red.; PAVLOVSKIY, Ye.V., red.; PEYVE, A.V., red.; PETRUSHEVSKIY, B.A., red.; SHEYNMANN, Yu.M., red.; SHTREYS, N.A., red.; YANSHIN, A.L., red.

[Folded areas of Eurasia; materials] Skadchatye oblasti Evrazii; materialy. Moskva, Nauka, 1964. 375 p.
(MIRA 17:11)

1. Soveshchaniye po problemam tektoniki. Moscow, 1963.

ACC NR: AP7005544

SOURCE CODE: PO/0095/66/014/009/0919/0926

AUTHOR: Pawlowski, J. -- Pavlovskiy, Yu.

ORG: Department of Electronic Circuits, Technical University, Warsaw (Zaklad ukladow elektronicznych, Politechnika)

TITLE: Amplifying properties of parametric amplifiers with active devices

SOURCE: Polska akademia nauk. Bulletin, Serie des sciences techniques, v. 14, no. 9, 1966, 919-926

TOPIC TAGS: electronic circuit, electronic amplifier, frequency band, effective power gain, parametric amplifier

ABSTRACT: The paper presents the results of an approximate analysis of the amplifying properties of two-thermal parametric amplifiers with electron tubes. Formulas determining the effective power gain, the bandwidth of amplified frequencies, and ample stability conditions are given. Also, results of experiments, which agree with theoretical conclusions, are furnished. The paper was presented by Professor A. K. Smolinski, 1 April 1966. The author thanks Professor W. Golde,

Card 1/2

ACC NR: AP7005544

Professor A. K. Smolinski, and Mr. P. Kerntopf (M. Sc.). The GIER computer of the Department of Numerical Calculations, Warsaw University, was used. Orig. art. has: 6 figures, and 10 formulas. [Based on author's abstract] [KP]

SUB CODE: 09/SUBM DATE: 01Apr66/ORIG REF: 002/SOV REF: 001/
OTH REF: 001/

Card

USSR/Diseases of Farm Animals - Diseases of Unknown Etiology.

R-3

Abs Jour : Ref Zhur - Biol., No 4, 1958, 16948

Author : Pavlovskiy, Yu.A.

Inst : Belaya Tserkov Abricultural Institute.

Title : Data for the Study of Infectious Deforming Rhinitis of Swine.

Orig Pub : Nauchn. zap. Belotserkovsk. s.-kh. in-t, 1957, 6, 117-124.

Abstract : The inspection of 6 farms suspect of infectious rhinitis (IR) revealed that the source of infection was to be looked for in the supernumerary sick pigs from which the disease spread by contact to the suckling pigs, and less often to the weanlings. In the case of weanlings, the clinical symptoms of disease appeared later (by 7-8 months of age). In the early stages of IR, morphological and biological changes of the blood were not observed.

Card 1/2

ACCESSION NR: AP4012013

S/0208/64/004/001/0178/0183

AUTHOR: Pavlovskiy, Yu. N. (Moscow)

TITLE: Numerical computation of plane laminar boundary layer in compressible gas on a blunt plate

SOURCE: Zhurnal vy*chisl. matem. i matem. fiz., v. 4, no. 1, 1964, 178-183

TOPIC TAGS: boundary layer, plane layer, laminar boundary layer, compressible gas, blunt plate, integral relation, fifth approximation

ABSTRACT: The author continues previous work (Chislenny*ye raeschet laminarnogo pogranichnogo sloya v szhimayemom gaze. Zh. vy*chisl. matem. i matem. fiz., 1962, 2, No. 5, 884-901) where he proposed a method for numerical solution of the equations of a laminar boundary layer in a compressible gas, based on the use of integral relations, and which is a generalization of the method for an incompressible gas. In the cited paper he also gave the results of computation of a compressible laminar plane boundary layer on a cylinder with a plate (Fig. 1. in the Enclosure) for the case where $M_{\infty} = 4$, $Pr = 3/4$, $T_0 = 1000$ under the condition $(\partial T / \partial y)_{y=0} = 0$ (non-heat-conductive body) obtained via numerical integration of systems of second, third, and fourth approximations. In the present paper the

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ACCESSION NR: AP4012013

author gives the results of computation of a compressible boundary layer in this same case. These results are obtained by integrating a system of fifth approximation. He also gives the results for a boundary layer, when the body radiates, i.e., the boundary condition on the body for temperature has the form

$$\left(\lambda \frac{\partial T}{\partial y}\right)_{y=0} = \epsilon \sigma [(T)_{y=0}^4 - T_{\infty}^4]. \quad (1)$$

where T_{∞} is the static temperature in the inflow. The notation and terminology are those of the author's previous work. "The author is grateful to A. A. Dorodnitsyn who was very helpful in the completion of this work, and also to N. N. Moiseyev and P. I. Chushkin for their valuable advice." Orig. art. has: 5 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 08Dec62

DATE ACQ: 14Feb64

ENCL: 01

SUB CODE: MM

NO REF SOV: 004

OTHER: 000

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S/044/62/000/006/040/127
B156/B112

AUTHOR: Pavlovskiy, Yu. N.

TITLE: Investigation of certain invariant solutions to boundary layer equations

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 65, abstract 6B349 (Zh. vychisl. matem. i matem. fiz., v. 1, no. 2, 1961, 280-294)

TEXT: Certain results, associated with the investigation of the group properties of the system of equations

$$\begin{aligned} w_y &= \frac{1}{v} (u u_x + v w + \frac{1}{p} p_x), \quad p_y = 0, \quad v_y + u_x = 0, \\ u_y - w &= 0, \end{aligned} \quad (1)$$

are deduced. The local Lie group G of transformations of the space E_6 (points which have coordinates u, v, w, p, x and y) is called the Card 1/4

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principal group of system (1), provided that: (a) the G transformations translate any solution of (1) into a solution of (1), and (b) any single-parameter Lie group of transformations of the space E_6 having the

property (a) belongs to G. The coordinates of the infinitesimal operators governing the single-parameter sub-groups in group G prove to be independent of w, and examination is therefore conducted in the space E_5 with coordinates u, v, p, x and y. In the case under consideration, the general solution to the fundamental equations of Lie's algebra depends on four arbitrary constants and one arbitrary function. Accordingly, G is the product of a four-parameter group generated by the operators

$$\begin{aligned} X_1 &= x \frac{\partial}{\partial x} + u \frac{\partial}{\partial u} + 2p \frac{\partial}{\partial p}, \\ X_2 &= y \frac{\partial}{\partial y} - 2u \frac{\partial}{\partial u} - v \frac{\partial}{\partial v} - 4p \frac{\partial}{\partial p}, \\ X_3 &= \frac{\partial}{\partial x}, \quad X_4 = \frac{\partial}{\partial p}, \end{aligned}$$

and the n-dimensional group generated by the operator $X_5 = f(x) \frac{\partial}{\partial y} + g(x) \frac{\partial}{\partial v}$

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with the arbitrary function $\varphi(x)$. The solution

$$u = u(x,y), v = v(x,y), p = p(x,y) \quad (2)$$

to system (1) is called an invariant solution, or a solution set up on the sub-group HCG if the manifold (2) in E_5 is invariant relative to H. The two solutions (2) are said to be substantially different if there is no transformation from G translating one into the other. If the reverse is true, the solutions are called similar. The article contains all the substantially different invariant solutions of (1), set up in single-parameter sub-groups of the main group. It is sufficient to examine the sub-groups $H_1, H_2, \dots, H_9$ with infinitesimal operators

$$X_1 + aX_2, X_2, X_3, X_4, X_2 + X_3, X_3 + X_4, \\ 2X_1 + X_2 + X_4, X_5, X_4 + X_5$$

respectively, since each two solutions set up on two different sub-groups of the number indicated are substantially different, and any solution to Card 3/4

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(1) set up on any single-parameter sub-group of G is similar to the solution set up on some sub-group H_1 . All the invariant solutions correspondent to the sub-groups indicated are written out, and the solution generated by the sub-group H_1 is discussed in detail. [Abstracter's note: Complete translation.]

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S/208/62/002/005/005/009
B112/B102

AUTHOR: Pavlovskiy, Yu. N.

TITLE: Numerical computation of a laminar boundary layer in a compressible gas

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 2, no. 5, 1962, 884-901

TEXT: The gasdynamical system

$$\bar{u} \frac{\partial \bar{u}}{\partial s} + w \frac{\partial \bar{u}}{\partial t} = \frac{\alpha_s}{\alpha_s (1 - \alpha_s^2)} (1 - h - \bar{u}^2) + \frac{\partial}{\partial t} \left(b \frac{\partial \bar{u}}{\partial t} \right),$$

$$\frac{\partial \bar{u}}{\partial s} + \frac{\partial w}{\partial t} = 0, \quad (2.1)$$

$$\bar{u} \frac{\partial h}{\partial s} + w \frac{\partial h}{\partial t} = \frac{1}{Pr} \frac{\partial}{\partial t} \left(b \frac{\partial h}{\partial t} \right) + \left(\frac{1}{Pr} - 1 \right) \alpha_s \frac{\partial}{\partial t} \left(b \frac{\partial \bar{u}^2}{\partial t} \right).$$

with the boundary conditions

$$\bar{u}(s, t)|_{t=0} = 0, \quad (2.2)$$

$$w(s, t)|_{t=0} = 0, \quad (2.3)$$

$$\lim_{t \rightarrow \infty} \bar{u}(s, t) = 1, \quad (2.4)$$

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is equivalent to the integral relations

$$\frac{d}{ds} \int_0^1 \Theta (1-z) f(z) dz = -\beta \int_0^1 \Theta f'(z) z (2-z) dz + \quad (2.14)$$

$$+ \beta \int_0^1 \omega f''(z) dz + \frac{f'(1) b_0}{\Theta_n} - \int_0^1 \frac{b}{\Theta} f'' dz,$$

$$\frac{d}{ds} \int_0^1 \omega (1-z) f(z) dz = -\beta \int_0^1 \omega f'(z) z (2-z) dz + \quad (2.15)$$

$$+ \beta \int_0^1 \frac{\omega^2}{\Theta} f'(z) dz + \frac{\omega_0 b_0}{\Theta_0^2} f'(1) - \int_0^1 \frac{b \omega}{\Theta^2} f''(z) dz +$$

$$+ \left(\frac{1}{P_r} + 1 \right) \int_0^1 q f''(z) dz - \frac{q_0 f'(1)}{P_r} + 2\alpha^2 \left(\frac{1}{P_r} - 1 \right) \int_0^1 \frac{b}{\Theta} (1-z) f'(z) dz.$$

Substitution of $f(z)$ by powers of z yields a system of $2n - 1$ integral relations. Approximate expressions for Θ and ω are inserted in these relations, resulting in the following system of ordinary differential

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equations for the unknown functions θ_i and ω_i :

$$\begin{aligned} \sum_{j=0}^{n-1} b_j^i \theta_j &= -\beta \sum_{j=0}^{n-1} c_j^i \theta_j + \beta \sum_{j=0}^{n-1} d_j^i \omega_j + \sum_{j=0}^{n-1} e_j^i \frac{b_j}{\theta_j}, \\ \sum_{j=0}^{n-1} f_j^i \omega_j &= -\beta \sum_{j=0}^{n-1} g_j^i \omega_j + \beta \sum_{j=0}^{n-1} h_j^i \frac{\omega_j^2}{\theta_j} + \\ &+ \sum_{j=0}^{n-1} m_j^i \frac{b_j \omega_j}{\theta_j^2} + \sum_{j=0}^{n-1} n_j^i q_j + \alpha_i \left(\frac{1}{Pr} - 1 \right) \sum_{j=0}^{n-1} p_j^i \frac{b_j}{\theta_j}, \\ (i, j &= 0, 1, \dots, n-1; \sigma = 0, 1, \dots, n-2). \end{aligned} \quad (2.19)$$

The second, third, and fourth approximations are written down explicitly. Further initial conditions for the approximating systems are determined and some numerical results are obtained. There are 4 figures.

SUBMITTED: May 16, 1962

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P/033/62/014/003/004/011
D251/D308

AUTHOR: Pavlovskiy, Yu. N. (Moscow)
TITLE: Investigation of some invariant solutions of the equations of the boundary layer
PERIODICAL: Archivum Mechaniki Stosowanej, v. 14, no. 3-4, 1962, 401-404

TEXT: The article is a summary of a work published in Zhurnal Vychislitel'noy matematiki i Matematicheskoy Fiziki, v. 1, no. 2, (1961), and gives some results connected with the group properties of boundary layers for two-dimensional incompressible flows, based on the method of L. S. Ovsyannikov. The fundamental group of the system is determined as the product of a four-parameter group and an infinite group. By integrating a system of ordinary differential equations the invariant first-rank solutions, including, in particular, the self-similar solutions, are obtained. Solutions corresponding to the one-parameter subgroup $X = X_1 + X_2/(m + 2)$ are considered in detail. Hence, solutions are obtained in which the

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interaction of the boundary layer and the perfect flow are taken into account, and for the cases when the perfect flow is characterized by $p = \text{const}$, $v = 0$ and $u_1 = ay^m$ ($c = 0$) or $u_1 = x^m(m + 1) + ay^m$ ($c \neq 0$) in the usual notation. The asymptotic behavior of such solutions is considered. A method is also given for improving in some sense the formulation of the boundary layer problem for the flow past any solid, which consists of a change of the thickness of the solid by an amount $\delta^*(x)$ corresponding to the transformation of the solution of the boundary layer problem by a finite transformation of a subgroup, generated by the operator which generates the infinite group mentioned above.

ASSOCIATION: Vychislitel'ny tsentr Akademii nauk SSSR (Computer Center of the Academy of Sciences USSR)

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Pavlovskiy, Yu.N.; BAZZHIN, A.P.; ANISHCHENKO, P.M.

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in Aeronautics. Vest. AN SSSR 34 no. 2:101 F '64. (MIRA 17:5)